# **Cloud Computing**

# **Training Module:**

Chapter 1 - Introduction to Cloud Computing

- ➤ What is the cloud?
- History of Cloud Computing
- ➤ How Cloud Computing Works
- Cloud Service Providers
- Cloud Computing Terminology

Chapter 2 – Virtualization

- Virtualization Basics
- Objectives
- > Benefits of Virtualization
- Emulation
- Virtualization for Enterprise

Chapter 3 - Building Cloud Networks

- Designing and Implementing a Data Center-Based Cloud
- > Communication Requirements for Cloud Implementation

Chapter 4 - Private Clouds

- ➤ What is it?
- > Installing a Private Cloud

Chapter 5 - Amazon Web Services

### a. Compute and Networking

- 1. EC2
- 2. Elastic MapReduce
- 3. Route 53
- 4. VPC

### b. Storage and Content Delivery

- 1. S3
- 2. Cloud Front
- 3. Storage Gateway

#### c. Database

- 1. DynamoDB
- 2. ElastiCache
- 3. RDS

### d. Deployment and Management

- a. CloudFormation
- b. CloudWatch
- c. Elastic Beanstalk
- d. IAM

## e. App Services.

- a. SES
- b. SNS
- c. SQS
- d. SWF

# Chapter 6 - Microsoft Azure

- **↗** Azure Introduction
- **↗** Azure Web Role
- Publishing to the Cloud
- Azure Administration
- **オ** Azure storage
- **↗** Azure worker role
- **⋾** SQL Azure
- Windows Azure Diagnostic Services

# Chapter 7 - Google App Engine

- > What is GAE
- > App engine Capabilities
- > Authentication via google
- ➤ GAE Account Setup
- > SDK and Integration
- > Entities and model
- > CRUd Operation and GQL
- Web Services